1	. Claims
2	Claim 1. A computer-implemented prescription management
3	system for use by a prescriber in creating a prescription at
4	a point of patient care, said prescription being usable by a
5	pharmacist to dispense drugs, said prescription management
6	system comprising:
7	a) electronic posting means to select and capture in said
8	prescription:
S sudden.	i) a patient identifier;
1(	ii) a prescribed drug;
	iii) a dosage for said prescribed drug; and
12	iv) a patient condition intended by said prescriber to
1:	be treated by said prescribed drug; and
14	b) a displayable library of prescribable drugs; and
<b>T</b>	c) displayable patient drug formulary information to
16	indicate to said prescriber-user selected ones of said
1	prescribable drugs included within a drug formulary
18	Full did
19	formulary guidelines at the point-of-care.
20	
21	February management system according to
22	de crack preferred data usage by a user
23	despitate to lavor such preferred usage,
24	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
. 25	
26	Claim 3. A prescription management system according to

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Claim 2 wherein at least one said preferred usage data 1 display comprises a personal-preference condition-selection 2 list for each system user. 3 4 Claim 4. A prescription management system according to 5 Claim 2 wherein at least one said/preferred usage data 6 display comprises a personal-preference drug-selection list 7 for each system user. 8 9 Claim 5. A prescription management system according to 10 Claim 1 further comprising a patient history record 11 displayed online, said patient history record listing 12 electronically available prior prescriptions, said prior 13 prescriptions each including a prescribed drug and a 14 condition treatment objective for each drug prescribed, 15 system-created prescriptions being system-added to said 16 17 history record. 18 Claim 6. A prescription management system according to 19 Claim 5 comprising a/patient condition list for selection of 20 a patient condition for posting to said prescription, said 21 patient condition Aist comprising patient conditions listed 22 in said patient history record. 23

24

Claim 7. A prescription management system according to 25 Claim 1 comprásing a source-oriented data-retrieval 26

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subsystem, said data retrieval subsystem accessing at least
   1
       one data-retrieval networks to supply an array of up-to-date
   2
       prescribing information and patient-related data to the
   3
       point-of-care from remote source databases.
   4
   5
   6
       Claim 8. A prescription management/system according to
       Claim 7 wherein said data-retrieval subsystem is linked to
   7
       the prescription management system to provide allergy and
   8
       interaction alerts, formulary changes, new drug approvals,
   9
       and to lock out or warn against, the prescribing of
  10
       inappropriate or recalled drugs/
  11
  12
       Claim 9. A prescription management system according to
  13
       Claim 1 wherein said patient history record is dynamically
  14
       assembled online in response to a user request from multiple
  15
       source record elements retrieved from multiple heterogenous
  16
17
       remote databases.
  18
       Claim 10. A prescription management system according to
  19
       Claim 9 implemented on a user interface device configured
  20
  21
      for networked digital communication with a host computer
      facility, wherein said/patient history record is retrieved
  22
      as said record elements from said remote databases by said
 23
      host computer facility in response to a call from said user
 24
      device said remote source databases being selected and
 25
```

identified according to said patient's prior geographical

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locations and health-care service providers. 1

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- Claim 11. A prescription management system according to 3
- Claim 5 wherein said patient history record is a virtual 4
- patient record newly assembled online in response to each 5
- user request for said record thereby to be current with 6
- regard to possible rempte updates of said source record 7
- elements. 8

9

- 10 Claim 12. A prescription management system according to
  - Claim 11 wherein said host computer facility logs the time,
  - date and user calling for said/virtual patient record to
- 13 provide an audit trail of access to said patient's record,
  - or a provider's or organization's data. 14

**15** 

- **16** Claim 13. A prescription management system according to
- Claim 11 deployed comprehens/ively throughout a geographical **17** 
  - area, demographic, company, plan or community group whereby 18
  - all drug prescriptions created in said area are products of 19
  - said system and wherein/all said drug prescriptions are 20
  - 21 posted to source databases accessible to said system whereby
  - a complete patient history record of all drug prescriptions 22
  - created for said patient in said geographical area, 23
  - demographic, company, plan or community group can be listed 24
  - in said dynamically assembled virtual patient record. 25

Claim 14. A prescription management system according to

Claim 1 wherein said drugs in said drug list are classified 2 according to a patient condition for which said drugs have 3 efficacy and said prescription management system further 4 comprises a patient-condition specification procedure for 5 selecting said condition from groups/of possible conditions 6 and an onscreen drug selection procedure for selecting said 7 prescribed drug from said library/listing multiple drugs 8 for treating each said patient problem. 9 10 Claim 15. A prescription management system according to 11 Claim 1 wherein said patient drug formulary display means 12 comprises a condition-driven formulary drug list, and a 13 condition-driven nonformylary drug list, said drug lists 14 being changeable according to the patient selected. 15 16 A prescription management system according to 17 Claim 15 wherein said system provides drug efficacy 18 guidelines based on patient information and formulary 19 information. 20 21 22 A prescription management system according to claim 3 23

wherein said prescriber-user's personal-preference list of

drugs displayed with formulary drugs indicated.

26

25

24

Claim 18. A prescription management system according to 1 Claim 1 including relative cost information for displayed 2 formulary drugs. 3 4 Claim 19. A prescription management system according to 5 Claim 1 wherein said drug formulary is generated by a 6 prescription benefits management company by providing 7 computer access to remote databases containing said drug 8 formulary information whereby appropriate formulary drugs 9 are presented to said user on screen on a user interface 10 device deployable at said point-of-care, to facilitate 11 compliance with drug formulary guidelines at said point-of-12 13 care. 14 15 16 A prescription management system according to Claim 1 wherein prescribability of a drug pursuant to formulary guidelines is formula my-qualified according to said patient 18 condition. 19 20 Claim 21. A prescr/iption management system according to 21 Claim 1 comprising/built-in logic for accessing drug 22 formulary information from multiple drug formulary providers 23 wherein said drug formulary list is selected from said 24 multiple available drug formularies according to said 25 patient identification, said patient having a prior 26

arrangement with said drug formulary provider to provide 1 prescription-related benefits to that patient, said drug 2 formulary list information being dynamically presented to 3 said prescriber-user in the form of at least one selection 4 of patient-specific formularies from which a formulary 5 status indication relevant to a/patient therapy-related 6 choice made by said prescriber fuser is made. 7 8 A prescription management system according to Claim 22. 9 10 11 12 13 13 Claim 21 comprising network / data communication means to update and maintain said multiple available formularies from remote source databases of formulary information. Claim 23. A prescription management system according to 14 Claim 1 wherein comprising means to categorize and display 15 said patient conditions categorized into multiple lists, said lists being selected from the group consisting of a personal condition list of conditions encountered by the 18 prescriber, a historical condition list of conditions 19 exhibited by the patient, one or more prescriber-customized 20 condition lists, a body system condition list, conditions 21 organized according to disease pathology, therapy, personal 22 knowledge and others. 23 24

Claim 24. A prescription management system according to 25 Claim 23 wherein drug selection is condition driven and said 26

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Section 1 - Sectio

Claim 28. A prescription management system according to 25 Claim 1 compri/sing a prescription expiration routine 26

- including dosing, amount and expiration drug quantifiers and
- 2 system calculation of a relationship between said drug
- quantifiers where said system provides default values for
- 4 unspecified ones of said drug quantifiers in response to
- 5 user selection of one or more of said drug quantifiers and
- 6 optionally patient history information, formulary
- 7 information indicating preferred drug lists for treatment.

- 9 Claim 29. A prescription management system according to
- 10 Claim 2 comprising a patient data access control subsystem
- including data access contro/ specification means enabling a
- 12 patient to authorize a user to access said patient's history
- 13 data and comprising data access control means whereby only
- 14 an authorized user can access said patient's data.

15

- 16 Claim 30. A prescription management system according to
- 17 Claim 29 comprising a patient data access auditor; said
- 18 patient data access auditor generating an access record
- 19 logging information as to the time date and identity of
- 20 entities accessing said patient history data, to provide a
- 21 patient data access audit trail and optionally further
- 22 comprising similar access audit means for generating an
- 23 access record logging similar information regarding access
- 24 to a prescriber or organization's data.

25

26 Claim 31. A prescription management system according to

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Claim 1 comprising a patient data access subsystem providing
  1
      patient-directed control of the flow of their own data.
  2
  3
      Claim 32. A prescription management/system according to
  4
      Claim 31 wherein said patient-directed data-access control
  5
      is achieved by centrally inputting to said patient data
  6
      access subsystem at a host computer facility, patient-
  7
      generated record-access specifi¢ations determining which
  8
     parties can access what data during what period of time.
 9
 10
     Claim 33. A prescription management system according to
 11
     Claim 32 wherein said patient-generated record-access
12
     specifications provide a patient security profile in a pre-
13
     authorization file said pre-authorization file being used to
14
     control access to said patient's data.
15
16
     Claim 34. A prescription management system according to
17
     Claim 1 comprising user-related historical records generated
18
     by operation of said system by a prescriber-user, a user
19
     data-access control subsystem including data-access control
20
     specification means enabling a user to authorize selective
21
     third party access to said user's history data and
22
    comprising data access control means whereby only an
23
    authorized third party can access said user's data and what
24
```

data type may be accessed by what organization or provider.

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Therefore

1 Claim 35. A prescription management system according to

2 Claim 20 comprising a user data access/auditor, said user

3 data access auditor generating an access record logging

4 information as to the time date and identity of third

5 parties accessing said user history/data, to provide a user

6 data access audit trail.

7

12

14

16

8 Claim 36. A prescription management system according to

9 Claim 1 comprising organization - generated source data

10 retrievable for display in said prescription-management

11 system from at least one remote database an organization-

directed data-access control/subsystem including data-access

13 control specification means/enabling an organization to

authorize selective third party access to said organization-

15 generated source data and comprising data access control

means whereby only an authorized third party can access said

17 organization-generated/source data.

18

19 Claim 37. A prescription management system according to

20 Claim 36 comprising an organization data access auditor,

21 said organization data access auditor generating an access

22 record logging information as to the time date and identity

of third parties accessing said organization-generated

source data to provide an organization data access audit

25 trail.

- 1 Claim 38. A prescription management system according to 2 Claim 2 comprising newly created prescription evaluation
- means to evaluate a newly prescribed drug for system-known
- 4 patient allergies or drug-to-drug interactions, or drug-to-
- 5 multiple drug interactions and absolute contraindications
- 6 with currently prescribed drugs, as known to the system.

Claim 39. A prescription management system according to
Claim 2 comprising a drug alert subsystem for communicating
alerts relating to unfavorable or cautionary characteristics
of particular drugs wherein said alerts are associated with
system information on the drug so that when a user calls up
the drug in question, they receive the warning or alert, or
other special message.

15

16

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21

Claim 40. A prescription management system according to Claim 39 wherein said drug alert subsystem is operative to communicate drug withdrawal information to system users electronically in real time or when said withdrawn drug is selected for prescribing or a warning is posted directly to the prescription.

22

Claim 41. A prescription management system according to
Claim 40 whereby a drug can be withdrawn from the market the
same day by making a system entry preventing completion of a
prescription for the withdrawn drug.

- Claim 42. A prescription management system according to 1
- Claim 40 wherein current users of/a drug or medication can 2
- be identified from prescription history records, referencing 3
- not only drugs prescribed, but also prescription expiry 4
- dates and both the patient and/their doctor are notified of 5
- said drug withdrawal optionally for the physician via direct 6
- point-to-point electronic ma/il.

- A prescription/management system according to Claim 43. 9
- Claim 1 comprising onscreen electronic mail access to other 10
  - users of said system, said electronic mail capability 11
  - additionally being linked with said prescription creation 12
  - function and enabling/a prescriber-user to append an 13
  - electronic record to/a prescription or prescription-related 14
  - record. 15

16

- 17 Claim 44. A prescription management system according to
  - Claim 43 wherein said electronic mail provides a platform 18
  - for accessing other artifidial intelligence and expert 19
  - systems and optionally providing linkage for transaction 20
  - services such as the ordering and reviewing of scheduling 21
  - and similar administrative functions. 22

- Claim 45. A prescription management system according to 24
- 25 Claim 1
- comprising a patient-selection subsystem whereby preliminary

- 1 selection of groups of patients can be made by providing
- 2 multiple patient lists selected from the growp consisting of
- 3 "Today's Patients", "In-Patients", "Out-Pathents", "Private
- 4 Patients" and others.

- 6 Claim 46. A prescription management system according to
- 7 Claim 45 wherein said patient lists are system-maintained,
- 8 on an ongoing basis, using the latest/data available to the
- 9 system and include intelligent patient selection means
- 10 enabling the user to select a convenient group of patients
- 11 that has a high probability of including the next patient or
- 12 patients to be encountered, thereby speeding access and
- 13 retrieval of a desired patient record.

14

- 15 Claim 47. A prescription management system according to
- 16 Claim 1 comprising onscreen access to drug detail
- information as to indications, interactions, side effects
- 18 and precautions.

19

- 20 Claim 48. A prescription management system according to
- 21 Claim 1 comprising a drug literature-retrieval subsystem to
- 22 retrieve drug -related /information across a network from a
- 23 remote heterogenous database for display to said user in
- 24 real time.

25

26 Claim 49. A prescription management system according to

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operative to provide a simple nonintrusive technique for 23 bringing new drug information to physicians at a point of 24 care when creating a prescription. 25

```
Claim 52. A prescription management system according to
   1
       Claim 49 comprising an outcome study subsystem for selecting
   2
       outcome study participants by centrally maintaining patient-
   3
       directed patient-record-access specifications whereby the
   4
       system can include records of patie/nts agreeable to becoming
   5
       study participants in such outcome studies pursuant to
   6
       indications in their patient-record-access specifications
   7
       optionally with output of said study data being controlled
   8
       to comply with access specifications of prescribers and
   9
       organizations having proprietary rights thereto.
  10
11
12
13
14
       Claim 53. A prescription management system according to
       Claim 1 comprising a new drug surveillance subsystem to
       conduct post introduction market surveillance of new drugs
       for adverse outcomes to the treatment of a specified
  15
       condition or conditions with the newly introduced drug.
  17
       Claim 54. A prescription management system according to
  18
```

Claim 53 wherein said new drug surveillance subsystem is
operative to monitor patients reporting new problems after
having been prescribed the new drug in question, refer such
new problems to the physician user to qualify them for
medical relevance and then statistically compare a
collection of similar reports with data on a pool of
similarly treated patients for significance.

```
Claim 55. A prescription management system according to
 1
     Claim 1 wherein said condition list comprises at least five
 2
     conditions, and said drug list comprises at least five
 3
     drugs.
 4
 5
     Claim 56.
                A prescription management system according to
 6
     Claim 1 wherein said drug information comprises associated
 7
     condition information and dosage information for at least
 8
     about fifty percent of all prescribable FDA-approved drugs.
 9
10
                A prescription management system according to
     Claim 57.
11
     Claim 1 comprising means to output a newly created
12
     electronic prescription in any desired form such as to
13
     print, to local or remot/e storage or to remote file transfer
14
     as an electronic prescription.
15
16
17
                A prescription management system according to
     Claim 1 comprising means for transmitting said electronic
18
     prescription across a network for fulfillment by a specified
19
20
     pharmacy.
21
     Claim 59. A prescription management system according to
22
     Claim 57 comprising a printed dosage schedule output for
23
24
     said patient/
25
               A prescription management system according to
26
```

- Claim 1 wherein multiple physicians accessed by a patient 1
- utilize the system described herein, with common online 2
- access to, and assembly of, a patient's prescription history 3
- record whereby that record provides a/current record of new 4
- prescriptions, then a common abuse can be controlled wherein 5
- a patient presents a problem or condition to more than one 6
- physician to obtain multiple prescriptions with a view to 7
- indulging in abusive ingestion or illicit resale. 8

- 10 11 12 13 Claim 61. A prescription management system according to
  - Claim 1 wherein the system also provides, for example in the
  - patient's history record, notification from a pharmacy, or
  - from a drug benefit plan Ainked to the pharmacy, of
  - fulfillment of a prescription, and that information is
- 14 15 16 available to the prescriber, for example from the patients'
  - history record, another common abuse wherein a patient
  - pleads loss of a prescription to obtain a duplicate, can
  - 18 also be prevented.

- Claim 62. A prescription management system according to 20
- 21 Claim 1 wherein the system also provides, for example in the
- patient's history record, notification from a pharmacy, or 22
- from a drug bemefit plan linked to the pharmacy, of 23
- fulfillment of a prescription, and that information is 24
- available to the prescriber, for example from the patients' 25
- history record, wherein a patient's failure to have a 26

```
prescription fulfilled indicating discontinuance of the
        1
                   prescribed therapy can be monitored and possibly corrected.
        2
        3
                   Claim 63. A prescription produced by the system of claim 1
        4
                   output in a form selected from the group consisting of
        5
                   electronic, paper, digitized voice and/fax.
        6
        7
                   Claim 64. A prescription management /system for electronic
        8
                   prescription creation by a prescriber at a point of patient
        9
A CONTROL OF THE PARTY OF THE P
                   care, said prescription being usable by a pharmacist to
      10
                   dispense drugs, said prescription management system
      11
                   comprising electronic posting means to select and capture in
      12
13
                   said prescription:
                                       i) a patient identifier;
      14
15
                                    ii) a prescribed drug;
16
                                 iii) a dosage for said prescribed drug; and
                                    iv) a patient condition intended by said prescriber to
                                               be mitigated by said prescribed drug.
      18
      19
                   Claim 65. A prescription management system according to
      20
                   Claim 64 further comprising an onscreen drug selection
      21
                   procedure having a patient condition list specifying
      22
      23
                   multiple possible patient conditions, having a drug list
                   specifying multiple possible prescribable drugs and having
      24
                   drug specification means to select and post a desired drug
      25
                   to said prescription;
      26
```

ζ.

```
wherein drugs in said drug list are classified according to
 1
     a patient condition for which said drugs have efficacy and
 2
     said onscreen drug selection procedure lists multiple drugs
 3
     for treating each said patient problem/
 4
 5
     Claim 66. A prescription management/system according to
 6
     Claim 64 comprising drug formulary information being a
 7
     selected list of drugs being prefetred for prescribing by a
 8
 9
     drug benefit provider to said patient.
10
     Claim 67. In combination, a host computer facility and a
11
     prescription management system//according to claim 64
12
     implemented on said host computer facility said host
1,3
     computer facility supporting/network delivery of user-
14
     relevant components of said/prescription management system
15
     to multiple remote user interface devices and providing data
16
     and communications resourdes for users to draw upon
     employing said interface Revices.
18
19
     Claim 68. A combination/according to claim 67 wherein said
20
     host computer facility/can communicate with multiple
21
     heterogenous remote da/tabases to retrieve complementary data
22
     elements from said databases and comprises:
23
       i) a dynamic record assembly procedure for online assembly
24
          of a data record from said complementary data elements;
25
26
          and
```

4

	1	ii) a user-device communication procedure to deliver said
	2	dynamically assembled record to a calling user-
	3	interface device as an integral data component of said
	4	prescription management system.
	5	
	6	Claim 69. A professional product specification system for
	7	electronically creating a technical specification usable by
	8	a professional to specify technical products said product
	9	specification system comprising
And the second s	10	a) electronic posting means to select and capture in said
	11	prescription:
32	12	i) a customer identifier;
And the second s	1,3	ii) a specified product; and
<b>=</b>	14	iii) product specifications; and
	15	b) an onscreen product selection procedure having a
Standard Company	16	product benefit list specifying multiple possible
ange of all to a second of the	17	customer benefits having a product list specifying
	18	multiple possible specifiable products and having
	19	product specification means to select and post a
•	20	desired product to said specification;
•	21	wherein products in said product list are classified
2	22	according to a customer-useful technical purpose attainable
	23	with said products and said onscreen product selection
	24	procedure lists multiple products for providing each said
	25	customer benefit

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